

387 CAG CGG CAC ATA CGG GAC TCG GTG AGC GCG GCC TGG GAC ACG TAC GAC ACG GAC 432
Q R H I R D S V S A A W D T Y D T D

441 CGC GAC GGG CGT GTG GGT TGG GAG GAG CTG CGC AAC GCC ACC TAT GGC CAC TAC 486
R D G R V G W E E L R N A T Y G H Y

495 GCG CCC GGT GAA GAA TTT CAT GAC GTG GAG GAT GCA GAG ACC TAC AAA AAG ATG 540
A P G E E F H D V E D A E T Y K K M

549 CTG GCT CGG GAC GAG CGG CGT TTC CGG GTG GCC GAC CAG GAT GGG GAC TCG ATG 594
L A R D E R R F R V A D Q D G D S M

603 GCC ACT CGA GAG GAG CTG ACA GCC TTC CTG CAC CCC GAG GAG TTC CCT CAC ATG 648
A T R E E L T A F L H P E E F P H M

657 CGG GAC ATC GTG ATT GCT GAA ACC CTG GAG GAC CTG GAC AGA AAC AAA GAT GGC 702
R D I V I A E T L E D L D R N K D G

711 TAT GTC CAG GTG GAG GAG TAC ATC GCG GAT CTG TAC TCA GCC GAG CCT GGG GAG 756
Y V Q V E E Y I A D L Y S A E P G E

FIGURE 1B

765	GAG GAG CCG GCG TGG GTG	774	CAG ACG GAG AGG CAG CAG	792	TTC CGG GAC	801	TTC CGG GAT	810
	E P A W V Q T E R Q Q F R D							
819	CTG AAC AAG GAT GGG CAC	828	CTG GAT GGG AGT GAG GTG	846	GGC CAC TGG GTG	855	CTG CTG CCC	864
	L N K D G H L L D G S E V G H W V L P							
873	CCT GCC CAG GAC CAC CCC	882	CTG GTG GAA GCC AAC CAC	900	CTG CTG CAC GAG AGC	909	GAC	918
	P A Q D Q P L V E A N H L L H E S D							
927	ACG GAC AAG GAT GGG CGG	936	CTG AGC AAA GCG GAA ATC	954	CTG GGT AAT TGG AAC	963	ATG	972
	T D K D G R L S K A E I L G N W N M							
981	TTT GTG GGC AGT CAG GCC	990	ACC AAC TAT GGC GAG GAC	1008	CTG ACC CGG CAC CAC	1017	GAT	1026
	F V G S Q A T N Y G E D L T R H H D							
1035	GAG CTG TGA GCA CCG CGC	1044	ACC TGC CAC AGC CTC AGA GGC	1062	CCG CAC AAT GAC	1071	CGG	1080
	E L							
1089	AGG AGG GGC CGC TGT GGT	1098	CTG GCC CCC TCC CTG TCC	1116	AGG CCC CGC AGG AGG	1125	CAG	1134

FIGURE IC

1143	ATG CAG TCC CAG GCA TCC TCC TGC CCC TGG GCT CTC AGG GAC CCC CTG GGT CGG	1188
1197	CTT CTG TCC CTG TCA CAC CCC CAA CCC CAG GGA GGG GCT GTC ATA GTC CCA GAG	1242
1251	GAT AAG CAA TAC CTA TTT CTG ACT GAG TCT CCC AGC CCA GAC CCA GGG ACC CTT	1296
1305	GGC CCC AAG CTC AGC TCT AAG AAC CGC CCC AAC CCC TCC AGC TCC AAA TCT GAG	1350
1359	CCT CCA CCA CAT AGA CTG AAA CTC CCC TGG CCC CAG CCC TCT CCT GCC TGG CCT	1404
1413	GGC CTG GGA CAC CTC CTC TCT GCC AGG AGG CAA TAA AAG CCA GCG CCG GGA AAA	1458
	AAA AA	

FIGURE 1D

9	18	27	36	45	54
CCC GCT TCC GGT TGG GCG GTG CTT GCG CGC GTG AGC TGA GCC GGT GGG TGA GCG					
63	72	81	90	99	108
GCG GCC ACG GCA TCC TGT GCT GTG GGG GCT ACG AGG AAA GAT CTA ATT ATC ATG M					
117	126	135	144	153	162
GAC CTG CGA CAG TTT CTT ATG TGC CTG TCC CTG TGC ACA GCC TTT GCC TTG AGC D L R Q F L M C L S L C T A F A L S					
171	180	189	198	207	216
AAA CCC ACA GAA AAG AAG GAC CGT GTA CAT CAT GAG CCT CAG CTC AGT GAC AAG K P T E K K D R V H H E P Q L S D K					
225	234	243	252	261	270
GTT CAC AAT GAT GCT CAG AGT TTT GAT TAT GAC CAT GAT GCC TTT TTG GGT GCT V H N D A Q S F D Y D H D A F L G A					
279	288	297	306	315	324
GAA GAA GCA AAG ACC TTT GAT CAG CTG ACA CCA GAA GAG AGC AAG GAA AGG CTT E E A K T F D Q L T P E E S K E R L					
333	342	351	360	369	378
GGA AAG ATT GTA AGT AAA ATA GAT GGC GAC AAG GAC GGG TTT GTG ACT GTG GAT G K I V S K I D G D K D G F V T V D					

FIGURE 2A

387	GAG CTC AAA GAC TGG ATT AAA TTT GCA CAA AAG CGC TGG ATT TAC GAG GAT GTA	405	414	423	432
	E L K D W I K F A Q K R W I Y E D V				
441	GAG CGA CAG TGG AAG GGG CAT GAC CTC AAT GAG GAC GGC CTC GTT TCC TGG GAG	450	468	477	486
	E R Q W K G H D L N E D G L V S W E				
495	GAG TAT AAA AAT GCC ACC TAC GGC TAC GTT TTA GAT GAT CCA GAT CCT GAT GAT	504	513	522	531
	E Y K N A T Y G Y V L D D P D D				
549	GGA TTT AAC TAT AAA CAG ATG ATG GTT AGA GAT GAG CGG AGG TTT AAA ATG GCA	558	567	576	585
	G F N Y K Q M M V R D E R R F K M A				
603	GAC AAG GAT GGA GAC CTC ATT GCC ACC AAG GAG GAG TTC ACA GCT TTC CTG CAC	612	621	630	639
	D K D G D L I A T K E E F T A F L H				
657	CCT GAG GAG TAT GAC TAC ATG AAA GAT ATA GTA CAG GAA ACA ATG GAA GAT	666	675	684	693
	P E E Y D Y M K D I V V Q E T M E D				
711	ATA GAT AAG AAT GCT GAT GGT TTC ATT GAT CTA GAA GAG TAT ATT GGT GAC ATG	720	729	738	747
	I D K N A D G G F I D L E E Y I G D M				

FIGURE 2B

765	774	783	792	801	810
TAC AGC CAT GAT GGG AAT ACT GAT GAG CCA GAA TGG GTA AAG ACA GAG CGA GAG Y S H D G N T D E P E W V K T E R E					
819	828	837	846	855	864
CAG TTT GTT GAG TTT CGG GAT AAG AAC CGT GAT GGG AAG ATG GAC AAG GAA GAG Q F V E F R D K N R D G G K M D K E E					
873	882	891	900	909	918
ACC AAA GAC TGG ATC CTT CCC TCA GAC TAT GAT CAT GCA GAG GCA GAA GCC AGG T K D W I L P S D Y D H A E A E A R					
927	936	945	954	963	972
CAC CTG GTC TAT GAA TCA GAC CAA AAC AAG GAT GGC AAG CTT ACC AAG GAG GAG H L V Y E S D Q N K D G G K L T K E E					
981	990	999	1008	1017	1026
ATC GTT GAC AAG TAT GAC TTA TTT GTT GGC AGC CAG GCC ACA GAT TTT GGG GAG I V D K Y D L F V G S Q A T D F G E					
1035	1044	1053	1062	1071	1080
GCC TTA GTA CGG CAT GAT GAG TTC TGA GCT ACG GAG GAA CCC TCA TTT CCT CAA A L V R H D E F					
1089	1098	1107	1116	1125	1134
AAG TAA TTT ATT TTT ACA GCT TCT GGT TTC ACA TGA AAT TGT TTG CGC TAC TGA					

1143	GAC TGT TAC	TAC AAA CTT	TTT AAG ACA	TGA AAA GGC	GTA ATG AAA	ACC ATC CCG	1188
1197	TCC CCA TTC	CTC CTC CTC	TCT GAG GGA	CTG GAG GGA	AGC CGT GCT	TCT GAG GAA	1242
1251	CAA CTC TAA	TTA GTA CAC	TTG TGT TTG	TAG ATT TAC	ACT TTG TAT	TAT GTA TTA	1296
1305	ACA TGG CGT	GTT TAT TTT	TGT ATT TTT	CTC TGG TTG	GGA GTA TGA	TAT GAA GGA	1350
1359	TCA AGA TCC	TCA ACT CAC	ACA TGT AGA	CAA ACA TTA	GCT CTT TAC	TCT TTC TCA	1404
1413	ACC CCT TTT	ATG ATT TTA	ATA ATT CTC	ACT TAA CTA	ATT TTG TAA	GCC TGA GAT	1458
1467	CAA TAA GAA	ATG TTC AGG	AGA GAG GAA	AGA AAA ATA	TAT GCT CCA	CAA TTT	1512
1521	ATA TTT AGA	GAG AGA ACA	CTT AGT CTT	GCC TGT CAA	AAA GTC CAA	CAT TTC ATA	1566
1575	GGT AGT AGG	GGC CAC ATA	TTA CAT TCA	GTT GCT ATA	GGT CCA GCA	ACT GAA CCT	1620

FIGURE 2D

[illegible]

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2115	2124	2133	2142	2151	2160
TAA CTT ATA GGA AAG CCT AGA ACC TCC CAG TAG AGT GGG GAT TTT TTT CTT CTT					
2169	2178	2187	2196	2205	2214
CCC TTT CTC TTT TGG ACA ATA GTT AAA TTA GCA GTA TTA GTT ATG AGT TTG GTT					
2223	2232	2241	2250	2259	2268
GCA GTG TTC TTA TCT TGT GGG CTG ATT TCC AAA AAC CAC ATG CTG CTG AAT TTA					
2277	2286	2295	2304	2313	2322
CCA GGG ATC CTC ATA CCT CAC AAT GCA AAC CAC TTA CTA CCA GGC CTT TTT CTG					
2331	2340	2349	2358	2367	2376
TGT CCA CTG GAG AGC TTG AGC TCA CAC TCA AAG ATC AGA GGA CCT ACA GAG AGG					
2385	2394	2403	2412	2421	2430
GCT CTT TGG TTT GAG GAC CAT GGC TTA CCT TTC CTG CCT TTG ACC CAT CAC ACC					
2439	2448	2457	2466	2475	2484
CCA TTT CCT CCT CTT TCC CTC TCC CCG CTG CCA AAA AAA AAA AAG GAA ACG					
2493	2502	2511	2520	2529	2538
TTT ATC ATG AAT CAA CAG GGT TTC AGT CCT TAT CAA AGA GAG ATG TGG AAA GAG					
2547	2556	2565	2574	2583	2592
CTA AAG AAA CCA CCC TTT GTT CCC AAC TCC ACT TTA CCC ATA TTT TAT GCA ACA					

FIGURE 2F

2601 2610 2619 2628 2637 2646
CAA ACA CTG TCC TTT TGG GTC CCT TTC TTA CAG ATG GGA CCT CTT GAG GAA GGA
2655
ATT ATC GTA TTC

FIGURE 2G

1 MMW - - - - R P S V L L L L L L L R H 922578
1 M A R G G R G R R L G L A L G L L L A L GI 1262329
1 R - GI 780361

17 G A O G K P - S P D A G P H G Q G R V H 922578
21 V L A P R V L R A K P T V R K E R V V R GI 1262329
2 - GI 780361

36 Q A A P L S D A P H D D A H G N F Q Y D 922578
41 P D S E L G E R P P E D N Q S - F Q Y D GI 1262329
2 - GI 780361

56 H E A F L G R E V A K E F D Q L T P E E 922578
60 H E A F L G K E D S K T F D Q L T P D E GI 1262329
2 - - - - - - - R D V A K E F D Q L T P E E GI 780361

76 S Q A R L G R I V D R M D R A G D G D G 922578
80 S K E R L G K I V D R I D - - N D G D G GI 1262329
16 S Q A R L G R I V D R M D L A G D S D G GI 780361

96 W V S L A E L R A W I A H T Q Q R H I R 922578
98 F V T T E E L K T W I K R V Q K R Y I F GI 1262329
36 W V S L A A L R A W I A H T Q Q R H I R GI 780361

116 D S V S A A W D T Y D T D R D G R V G W 922578
118 D N V A K V W K D Y D R D K D D K I S W GI 1262329
56 D S V S A A W H T Y D T D R D G R V G W GI 780361

136 E E L R N A T Y G H Y - A P G E E F H D 922578
138 E E Y K Q A T Y G Y Y L G N P A E F H D GI 1262329
76 E E L R N A T Y G H Y - E P G E E F H D GI 780361

155 V E D A E T Y K K M L A R D E R R F R V 922578
158 S S D H H T F K K M L P R D E R R F K A GI 1262329
95 V E G P GI 780361

FIGURE 3A

175 A D Q D G D S M A T R E E L T A F L H P 922578
 178 A D L N G D L T A T R E E F T A F L H P GI 1262329

195 E E F P H M R D I V I A E T L E D L D R 922578
 198 E E F E H M K E I V V L E T L E D I D K GI 1262329

215 N K D G Y V Q V E E Y I A D L Y S A E P 922578
 218 N G D G F V D Q D E Y I A D M F S H E E GI 1262329

235 G E E E P A W V Q T E R Q Q F R D F R D 922578
 238 N G P E P D W V L S E R E Q F N E F R D GI 1262329

255 L N K D G H L D G S E V G H W V L P P A 922578
 258 L N K D G K L D K D E I R H W I L P Q D GI 1262329

275 Q D Q P L V E A N H L L H E S D T D K D 922578
 278 Y D H A Q A E A R H L V Y E S D K N K D GI 1262329

295 G R L S K A E I L G N W N M F V G S Q A 922578
 298 E K L T K E E I L E N W N M F V G S Q A GI 1262329

315 T N Y G E D L T R H H D E L 922578
 318 T N Y G E D L T K N H D E L GI 1262329

FIGURE 3B

1 MDL - - - - R Q F L M C L S L C T A F 1601793
 1 M A R G G R G R R L G L A L G L L L A L GI 1262329
 17 A L S - - - - - K P T E K K D R V - H 1601793
 21 V L A P R V L R A K P T V R K E R V V R GI 1262329
 30 H E P Q L S D K V H N D A Q S F D Y D H 1601793
 41 P D S E L G E R P P E D N Q S F Q Y D H GI 1262329
 50 D A F L G A E E A K T F D Q L T P E E S 1601793
 61 E A F L G K E D S K T F D Q L T P D E S GI 1262329
 70 K E R L G K I V S K I D G D K D G F V T 1601793
 81 K E R L G K I V D R I D N D G D G F V T GI 1262329
 90 V D E L K D W I K F A Q K R W I Y E D V 1601793
 101 T E E L K T W I K R V Q K R Y I F D N V GI 1262329
 110 E R Q W K G H D L N E D G L V S W E E Y 1601793
 121 A K V W K D Y D R D K D D K I S W E E Y GI 1262329
 130 K N A T Y G Y V L D D P - - - - D P D D 1601793
 141 K Q A T Y G Y Y L G N P A E F H D S S D GI 1262329
 146 G F N Y K Q M M V R D E R R F K M A D K 1601793
 161 H H T F K K M L P R D E R R F K A A D L GI 1262329
 166 D G D L I A T K E E F T A F L H P E E Y 1601793
 181 N G D L T A T R E E F T A F L H P E E F GI 1262329
 186 D Y M K D I V V Q E T M E D I D K N A D 1601793
 201 E H M K E I V V L E T L E D I D K N G D GI 1262329
 206 G F I D L E E Y I G D M Y S H D G N T D 1601793
 221 G F V D Q D E Y I A D M F S H E E N G P GI 1262329

FIGURE 4A

226	E P E W V K T E R E Q F V E F R D K N R	1601793
241	E P D W V L S E R E Q F N E F R D L N K	GI 1262329
246	D G K M D K E E T K D W I L P S D Y D H	1601793
261	D G K L D K D E I R H W I L P Q D Y D H	GI 1262329
266	A E A E A R H L V Y E S D Q N K D G K L	1601793
281	A Q A E A R H L V Y E S D K N K D E K L	GI 1262329
286	T K E E I V D K Y D L F V G S Q A T D F	1601793
301	T K E E I L E N W N M F V G S Q A T N Y	GI 1262329
306	G E A L V R - H D E F	1601793
321	G E D L T K N H D E L	GI 1262329

FIGURE 4B

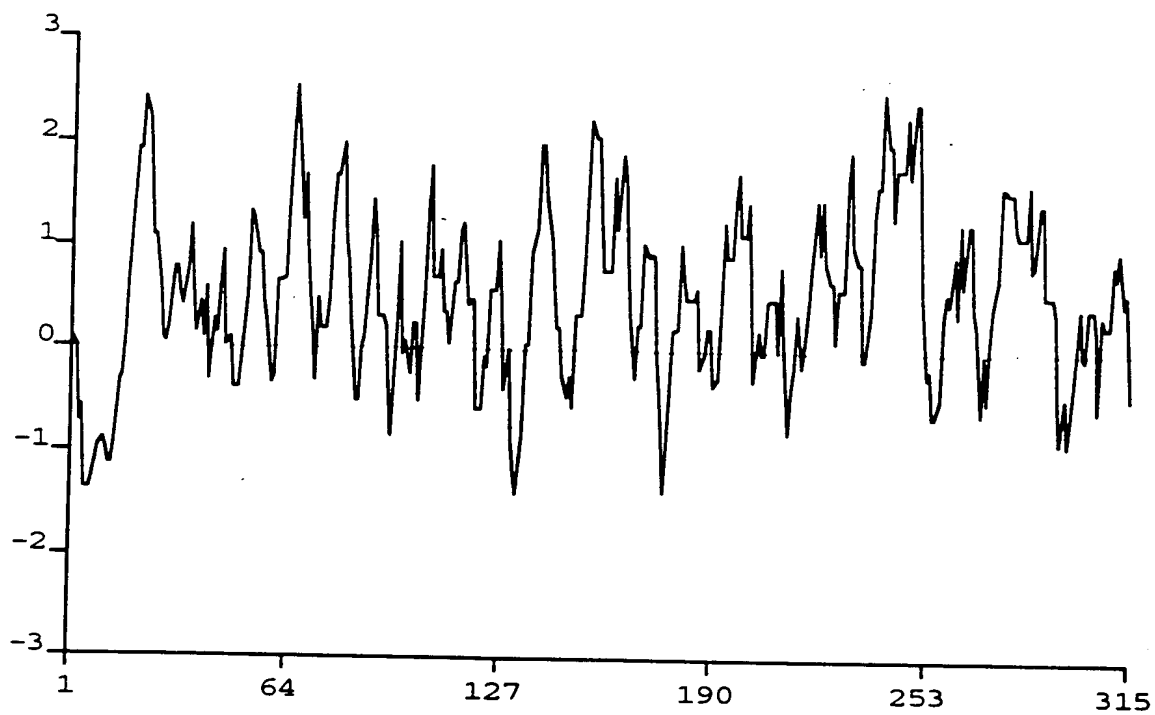


FIGURE 5B

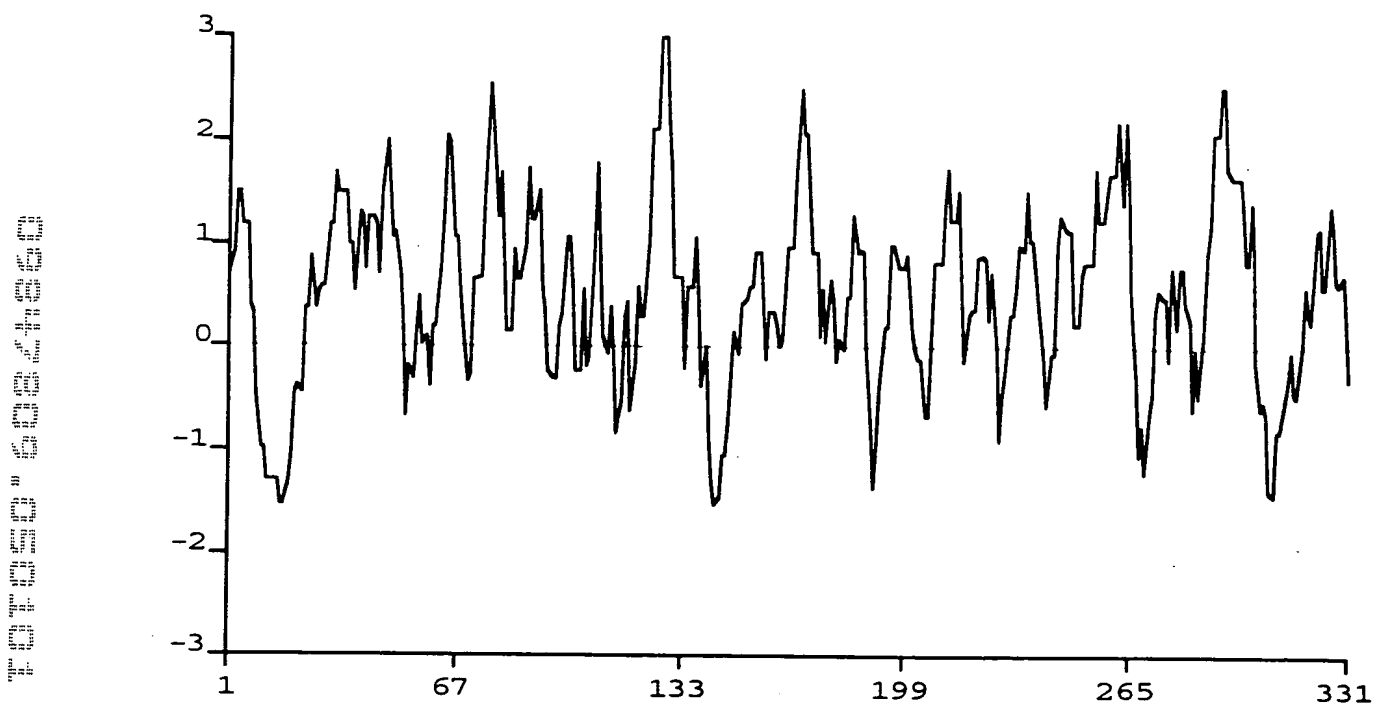


FIGURE 5C